

FORM PTO-1082
TRANSMITTAL FOR NEW U.S. PATENT APPLICATION

Assistant Commissioner
for Patents
Washington, D.C. 20231

BOX APPLICATIONS

Re: New U.S. Patent Application
For: AN EMERGENCY INFORMING APPARATUS AND
AN EMERGENCY INFORMING SYSTEM
Inventor(s): Kenji YOSHIOKA
Attorney Docket: 0102/0108

Sir:

Attached hereto is the application identified above, including 25 pages of textual specification including 16 claims, and 7 sheets of drawings.

The Government filing fee is calculated as follows:

(Col 1)		(Col 2)		(Col 3)	SMALL ENTITY		OR	NON-SMALL ENTITY	
TOTAL	NO. FILED			NO. EXTRA	RATE	FEE		RATE	FEE
	16	minus	20		x9=	0		x18=	\$
INDEP	2	minus	3		x39=	0		x78=	\$
_ First Presentation, Multiple Dependent Claims					+130=	0		+260=	\$
Base Filing Fee						\$345			\$690
TOTAL FILING FEE* (accounting for possible small entity status)						\$	OR TOTAL		\$690

☐ *Reduced by one-half, as applicant(s) is/are a "small entity". A Declaration Claiming Small Entity Status:

☐ is filed herewith;

☐ will be filed at a later date;

☐ was filed in the parent application.

☒ Foreign priority is claimed under 35 U.S.C. § 119 from Japanese Patent Application No. 11-94287 dated March 31, 1999.

☐ Priority document(s) will be submitted at a later date.

☒ Priority document(s) is/are submitted herewith.

- ☐ There is no claim to foreign priority under 35 U.S.C. § 119.
- ☒ Executed Declaration(s) is/are submitted herewith.
- ☐ Executed Declaration(s) will be submitted at a later date pursuant to 37 CFR § 1.41 and § 1.53, with an appropriate surcharge under 37 CFR § 1.16(e).
- ☐ Formal drawing(s) is/are attached.
- ☒ Formal drawing(s) will be submitted at a later date.
- ☐ An Information Disclosure Statement, PTO-1449 and reference(s) cited therein is/are submitted.
- ☒ Assignment document(s) is/are submitted herewith, along with Form PTO-1595; the recordation fee of \$40.00 per document is enclosed herewith.
- ☒ A check in the amount of \$ 730.00 is enclosed. The Commissioner is hereby authorized to charge any deficiency under 37 CFR §§ 1.16 or 1.17, or credit any overpayment, to Deposit Account No. 50-0501. A duplicate copy of this form is attached.
- ☐ No payment is enclosed at this time. Full payment will be made when the executed Declaration is submitted.
- ☒ The Commissioner is hereby authorized to charge any fee deficiency, except the filing fee, *during the entire pendency of the present application*, or credit any overpayment, to Deposit Account No. 50-0501. A duplicate copy of this Form is enclosed.

Respectfully submitted,



Louis Woo, Reg. No. 31,730
Law Offices of Louis Woo
1901 N. Fort Myer Drive, Suite 501
Arlington, Virginia 22209
Phone: (703) 522-8872

Date: March 24, 2000

TITLE OF THE INVENTION

AN EMERGENCY INFORMING APPARATUS AND
AN EMERGENCY INFORMING SYSTEM

BACKGROUND OF THE INVENTION

5 1. Field of the Invention

This invention relates to an emergency informing
apparatus mounted on a vehicle for informing emergency
condition data, position data, and identification data of
the vehicle in response to a command signal and an
10 emergency informing system including the emergency
informing apparatus.

2. Description of the Prior Art

An emergency informing apparatus mounted on a
vehicle for informing emergency condition data, position
15 data, and identification data of the vehicle in response to
a command signal is known. Such a prior art emergency
informing apparatus informs a police, etc. of at least
emergency condition data, position data, and identification
data of the vehicle in response to a switch.

20 However, though the prior art emergency informing
apparatus includes a wireless telephone communication
circuit, it cannot be used for general personal
communication.

SUMMARY OF THE INVENTION

25 The aim of the present invention is to provide a

superior emergency informing apparatus and superior emergency informing system.

Moreover, the aim of the present invention is to provide communication in a non-emergency condition with the
5 emergency informing apparatus.

According to the present invention there is provided a first emergency informing apparatus for a vehicle including: a position detecting unit for detecting a position of the emergency informing apparatus in response
10 to a command signal. The first emergency informing apparatus further includes a data generation unit including a memory for generating emergency data including at least identification data of the vehicle from the memory, called party data from the memory, and the position data in
15 response to the command signal. The first emergency informing apparatus further includes a wireless telephone communication unit including: an emergency communicating unit for making a call with the called party data and transmitting the emergency data to a called party indicated
20 by the called party data in response to the command signal; and an ordinary communication unit for providing telephone communication with a desired party in response to a calling demand and telephone communication with a calling party in response to a call from the calling party; and a
25 controlling unit for operating the emergency communication

unit when the command signal is exist and operating the ordinary communication unit when the command signal is inexistent.

The first emergency informing apparatus may further
5 include an interface unit for interfacing the ordinary communication unit with an external unit.

Moreover, in this case, a data converting unit for converting data in the telephone communication between the interface unit and the telephone communication unit may be
10 further provided.

The first emergency informing apparatus may further include an automatic dialling unit for registering telephone number data and supplying the calling demand and one of the registered telephone number data to the ordinary
15 communication unit to provide the telephone communication.

The first emergency informing apparatus may further include a hands-free communication unit for providing sound communication between a user and the ordinary communication unit.

20 According to the present invention there is provided an emergency informing system including: a wireless telephone network including a base station; and an emergency informing apparatus for a vehicle and a predetermined unit for receiving and outputting the
25 emergency data from a telephone communication unit of the

emergency informing apparatus via the wireless telephone network.

The emergency informing apparatus includes: a position detecting unit for detecting a position of the emergency informing apparatus in response to a command signal; a data generation unit including a memory for generating emergency data including at least identification data of the vehicle from the memory, called party data from the memory, and the position data in response to the command signal; and a telephone communication unit. The telephone communication unit includes: an emergency communicating unit for making a call with the called party data and transmitting emergency data to a called party indicated by the called party data in response to the command signal; and an ordinary communication unit for providing telephone communication with a desired third party in response to a calling demand and with a third calling party in response to a call from the third calling party; and a controlling unit for operating the emergency communication unit when the command signal is exist and operating the ordinary communication unit when the command signal is inexistent.

BRIEF DESCRIPTION OF THE DRAWINGS

The object and features of the present invention will become more readily apparent from the following

detailed description taken in connection with the accompanying drawings in which:

Fig. 1 is a block diagram of an emergency informing apparatus according to a first embodiment of this invention;

Fig. 2 is a block diagram of an emergency informing apparatus according to a second embodiment of this invention;

Fig. 3 is a block diagram of an emergency informing apparatus according to a third embodiment of this invention;

Fig. 4 is a block diagram of an emergency informing apparatus according to a fourth embodiment of this invention;

Figs. 5 and 6 are block diagrams of modifications of this invention; and

Fig. 7 is a block diagram of an emergency informing system of this invention including the emergency informing apparatus.

The same or corresponding elements or parts are designated with like references throughout the drawings.

DETAILED DESCRIPTION OF THE INVENTION

<FIRST EMBODIMENT>

Fig. 1 is a block diagram of an emergency informing apparatus 1a according to a first embodiment of this

invention.

The emergency informing apparatus 1a is mounted on a vehicle. The emergency informing apparatus 1a includes an emergency switch 3 for generating a command signal to
5 inform a predetermined unit (station) of an emergency condition, a GPS antenna 4 for receiving a GPS signal, a control circuit (microprocessor) 12 for executing controlling to respective circuits in the emergency informing apparatus 1a, a communication control circuit
10 (wireless telephone communication control circuit) 11 for controlling communication with a third party including a predetermined unit (station) such as a terminal in a police station through an antenna 2 via a base station under controlling by the control circuit 12, a gyrocompass 13 for
15 detecting a compass direction of the vehicle, a GPS antenna 4 for receiving the GPS signal, a GPS receiver 16 for calculating its position from the received GPS signal, a position data detection circuit 14 for detecting position data from the GPS receiver 16, the gyrocompass 13, and a
20 yaw rate indicative of a direction changing rate, a memory 15 for storing data indicating occurrence of emergency, a registered number of the vehicle (identification data of the vehicle), called party data such as a telephone number of police, and the name data of the owner of the vehicle.
25 Moreover, the emergency informing apparatus 1a

includes an operation circuit 5 for supplying an operation signal such as a dial signal to the control circuit 12, a hands-free circuit 17, a speaker 6, and a microphone 7. The hands-free circuit 17, the speaker 6, and the
5 microphone 7 provide the hands-free communication through the communication control circuit 11 and the antenna 2.

The emergency informing apparatus 1a mounted on a vehicle is used for informing a request for a patrol car, an ambulance car, or a fire engine truck on a motorcar
10 accident or a sudden illness. When a motorcar accident or a sudden illness occurs, the driver depresses the emergency switch 3. In response to this, the emergency informing apparatus 1a automatically makes a call to a police or an emergency information center or the like and transmits data
15 indicating occurrence of (kinds of) emergency, the present position of the vehicle, data of the registered vehicle in response to the emergency switch 3. Moreover, the emergency may be detected by a shock sensor, a thermal sensor, etc.

20 The control circuit 12 recognizes occurrence of emergency in response to the emergency switch 3. Then, the control circuit 12 supplies a position information demanding signal to the position data detecting circuit 14 and reads called party data, i.e., a telephone number of a
25 police station, etc., identification data of this vehicle

and the data of the owner of this vehicle from the memory
15. The control circuit 12 generates emergency data
including data indicating occurrence of emergency, the
present position data, and the identification data of this
5 vehicle to supply the emergency data to the communication
control circuit 11.

The communication control circuit 11 makes a call to
the predetermined station and when the called party
responds the call, i.e., link has been established, the
10 communication control circuit 11 transmits the emergency
data via the antenna 2 to a near base station of a wireless
telephone network. Further, the emergency data may be
forwarded to the station through a public switched
telephone network.

15 The gyrocompass 13 detects the compass direction of
the vehicle. The GPS antenna 4 receives a GPS signal and
the receiving circuit 16 calculates the present position of
the vehicle using the GPS signal. The position data
detection circuit 14 receives the compass direction of the
20 vehicle and the present position of the vehicle from the
GPS receiving circuit 16. Moreover, the position data
detection circuit 14 receives a yaw rate signal from the
vehicle to detect a travelling direction. The position
data detection circuit 14 supplies the position data
25 including the present position, the compass direction, and

the travelling direction to the control circuit 12.

Moreover, the control circuit 12 receives a communication request from the operation circuit 5. That is, the operation circuit 5 generates an OFF-HOOK signal and a dial signal in response to operation by a driver. The control circuit 12 makes a call to a desired party with the dial signal through the communication control circuit 11 and the antenna 2 when the control circuit does not detect the emergency condition.

Further, the control circuit 12 receives a communication request from the communication control circuit 11. That is, the communication control circuit 11 receives a call from a calling party through a wireless communication network, and the antenna 2. When the link has been established, the control circuit 12 operates the communication control circuit 11 and the hands-free communication circuit 17 to provide voice communication with the speaker 6 and the microphone 7 when the control circuit 12 does not detects the emergency condition.

When the control circuit 12 detects the emergency condition during the voice communication, the control circuit 12 disconnects the link and makes a call to the predetermined station to inform the emergency condition.

The hands-free communication circuit 17 provides the hands-free voice communication with the speaker 6 and the

microphone 7 by howling cancelling and echo cancelling operations.

The operation circuit 5 generates a dial signal in response to operation by a driver. The control circuit 12 makes a call to a third party with the dial signal through the communication control circuit 11 and the antenna 2 when the control circuit 12 does not detect the emergency condition.

The control circuit 12 operates the communication control circuit 11, the position detection circuit and the memory 15 to provide the emergency communication portion in response to the emergency switch 3 and operates the communication control circuit 11, the hands-free circuit 17 and the operation circuit 5 to provide an ordinary (non-emergency) communication portion.

<SECOND EMBODIMENT>

Fig. 2 is a block diagram of an emergency informing apparatus 1b according to a second embodiment of this invention.

The structure of a second embodiment is substantially the same as that of the first embodiment. The difference is that an interface circuit 181 replaces the hands-free circuit 17 and the control circuit 12 controls the interface circuit 181. The interface circuit 181 provides interfacing between the communication control

circuit 11 and an external terminal 81.

The external terminal 81 generates and supplies a dial signal to the communication control circuit 11 through the interface circuit 181 in response to a request to
5 provide data communication and voice communication with the external terminal 81.

When the control circuit 12 receives the dial signal from the external terminal 81 through the interface circuit 181, the control circuit 12 makes a call to a third party
10 with the dial signal from the external terminal 81 when the control circuit 12 does not detect an emergency condition.

Further, when the communication control circuit 11 receives a call from a calling party through a wireless communication network and the antenna 2 and if the link has
15 been established, the communication control circuit 11 provides data communication or voice communication with the external terminal 81 when the control circuit 12 does not detect an emergency condition.

When the control circuit 12 detects an emergency
20 condition during the data communication or the voice communication, the control circuit 12 interrupts the communication and disconnects the link and makes a call to the predetermined station to inform the emergency condition as mentioned above.

25 The communication between the emergency informing

apparatus 1b and the network is provided with a general cellular phone system. The communication between communication circuit 11 to the external terminal 81 is performed using sixteen-wire interface signal to provide
5 the voice communication and the data communication.

In this embodiment, the interface circuit 181 is provided, so that the external terminal 81 can perform communication controlling through the interface circuit 181.

<THIRD EMBODIMENT>

10 Fig. 3 is a block diagram of an emergency informing apparatus 1c according to a third embodiment of this invention.

The structure of a third embodiment is substantially the same as that of the second embodiment. The difference
15 is that a data communication circuit (program) 121 is further provided in the control circuit (microprocessor) 12 and an interface circuit 182 replaces the interface circuit 181. The data communication circuit 121 converts the control signal such as the AT commands (developed by Hayes
20 Microcomputer Products) and data from the control circuit 12 into data to be outputted by the communication control circuit 11 and converts data from the communication control circuit 11 to the control circuit 12 into the data having a data format which is recognized by the control circuit 12.
25 This function is the same as that by the general data

communication adapter. The interface circuit 182 provides connection to supply control signals and data such as the AT command used for modem controlling to the data communication circuit 121.

5 Operation of the third embodiment will be described. The control circuit 12 enters a normal (ordinary) communication mode in the condition other than the emergency condition. When data communication is requested, the external terminal 82 sends a communication request to
10 the control circuit 12. That is, the external terminal 82 generates and supplies a dial signal to the data communication circuit 121 in response to operation by a driver. The data communication circuit 121 makes a call to a third party with the dial signal through the
15 communication control circuit 11 and the antenna 2 when the control circuit 12 does not detect the emergency condition. When the link has been established and the communication condition is established, the data communication circuit 121 informs the external terminal 82 through the interface
20 circuit 182 that the link and the communication condition have been established. Then, the external terminal 82 performs data transmission to the data communication circuit 121. The data communication circuit 121 converts or modulates the data to be transmitted by the
25 communication control circuit 11. The communication

control circuit 11 transmits the data from the data communication circuit 121.

When the communication control circuit 11 receives data from the antenna 2, the data communication circuit 121
5 converts or demodulates the received data into the data to be supplied to the external terminal 82.

Further, the control circuit 12 receives a communication request from the communication control circuit 11. That is, the communication control circuit 11
10 receives a call from a calling party through a wireless communication network, and the antenna 2. When the link has been established, the control circuit 12 operates the communication control circuit 11 and the interface circuit 182 to provide voice or data communication with the
15 external terminal 82 when the control circuit 12 does not detect the emergency condition.

When the control circuit 12 detects the emergency condition during the voice or data communication, the control circuit 12 disconnects the link and makes a call to
20 the predetermined station (unit) to inform the emergency condition.

If the communication between the emergency informing apparatus and the network is provided with a cellular phone system, the communication between communication control
25 circuit 11 and the data communication circuit 121 is

performed using sixteen-wire interface signal. Moreover, the communication between the data communication circuit 121 and the external terminal 82 is provided with the modem interface signal such as the AT command.

5 As mentioned above, the data communication circuit 121 is further provided as the general data communication adapter or a modem. Moreover, the interface circuit 182 for connecting the data communication circuit 121 to the external terminal 82 is provided. Accordingly, the
10 external terminal 82 can access to the data communication circuit 121 in the ordinary (non-emergency) condition.

In this embodiment, the data communication circuit 121 is provided, so that the external terminal 82 can supplies data communication command to the data
15 communication circuit 121 to access the data communication circuit 121 to provide data communication.

<FOURTH EMBODIMENT>

Fig. 4 is a block diagram of an emergency informing apparatus 1d according to a fourth embodiment of this
20 invention.

The structure of a fourth embodiment is substantially the same as that of the first embodiment. The difference is that a memory dial operation circuit 9 replaces the operation circuit 5. The memory dial
25 operation circuit 9 generates the dial signal in response

to the driver or the user. Moreover, the memory dial operation circuit 9 registers telephone numbers and automatic dialing signal for generating one of the dial signals directed to one of the registered telephone numbers.

5 The driver or the user operates the memory dial operation circuit 9 to input a plurality of sets of telephone number data, the registering number, and the name into the control circuit 12. The control circuit 12 stores the data in the memory 15.

10 The memory dial operation circuit 9 includes a display such an LCD to display data of the registered telephone numbers and the registered names.

When the driver or the user makes the automatic calling, the driver operates the memory dial operation
15 circuit 9. In response to this, the memory dial operation circuit 9 reads the registered telephone number data or the corresponding registered name from the memory 15 via the control circuit 12. The user watches the displayed image and selects one of the registered name or the registered
20 telephone numbers. In response to this, the control circuit 12 reads the selected registered telephone number data and makes a call with the selected telephone number data.

Moreover, the control circuit 12 receives a
25 communication request from the communication control

circuit 11. That is, the communication control circuit 11 receives a call from a calling party through a wireless communication network, and the antenna 2. When the link has been established, the control circuit 12 operates the
5 communication control circuit 11 and the hands-free communication circuit 17 to provide voice communication with the speaker 6 and the microphone 7 when the control circuit 12 does not detect the emergency condition.

When the control circuit 12 detects the emergency
10 condition during the voice communication, the control circuit 12 disconnects the link and makes a call to the predetermined station to inform the emergency condition.

Moreover, if a connector is provided between the memory dial operation circuit 9 and the control circuit 12,
15 the memory dial operation circuit 9 is detachable. Further, the interface circuit 181 in the third embodiment may be connected to the control circuit 12 with a connector, so that the data communication can be provided with the connector.

20 Moreover, the memory 15 may be provided in the communication control circuit 11.

Modifications will be described.

Figs. 5 and 6 are block diagrams of modifications of this invention. The emergency informing apparatus shown in
25 Fig. 5 shows combination of the first embodiment and the

second embodiment. That is, the hands-free circuit 17, the speaker 6, and the microphone 7 are further provided to the emergency informing apparatus shown in Fig. 2.

The emergency informing apparatus shown in Fig. 6 shows combination of the first embodiment and the third embodiment. That is, the hands-free circuit 17, the speaker 6, and the microphone 7 are further provided to the emergency informing apparatus shown in Fig. 3.

Fig. 7 is a block diagram of an emergency informing system of this invention including the emergency informing apparatus mentioned above. The emergency informing system includes an emergency informing apparatus 1a, 1b, 1c, 1d, 1e, or 1f, a wireless communication network 104, a wired communication network 102 such as PSTN, and a predetermined station to be called when emergency occurs, such as a police station.

When an emergency condition occurs, the emergency informing apparatus 1a, 1b, 1c, 1d, 1e, or 1f transmits emergency data to the nearest base station (switch station) 101 of the wireless network 104, the base station forwards the emergency data to a terminal 103 of the predetermined station through the wired communication network 102. The terminal of the predetermined station may be coupled with a special transmission line or a special wireless line.

WHAT IS CLAIMED IS:

1. An emergency informing apparatus for a vehicle comprising:

5 position detecting means for detecting a position of said emergency informing apparatus in response to a command signal;

data generation means including storing means for generating emergency data including at least identification
10 data of said vehicle from said storing means, called party data from said storing means, and said position in response to said command signal;

wireless telephone communication means including:

emergency communicating means for making a call
15 with said called party data and transmitting said emergency data to a called party indicated by said called party data in response to said command signal; and

ordinary communication means for providing telephone communication with a desired party in response to
20 a calling demand and telephone communication with a calling party in response to a call from said calling party; and

controlling means for operating said emergency communication means when said command signal is exist and operating said ordinary communication means when said
25 command signal is inexistent.

2. An emergency informing apparatus as claimed in claim 1,
further comprising interface means for interfacing said
ordinary communication means with an external unit.

5

3. An emergency informing apparatus as claimed in claim 2,
further comprising data converting means for converting
data in said telephone communication between said interface
means and said telephone communication means.

10

4. An emergency informing apparatus as claimed in claim 1,
further comprising automatic dialling means for registering
telephone number data and supplying said calling demand and
one of said registered telephone number data to said

15 ordinary communication means to provide said telephone
communication.

5. An emergency informing apparatus as claimed in claim 1,
further comprising hands-free communication means for
20 providing sound communication between a user and the
ordinary communication means.

6. An emergency informing apparatus as claimed in claim 2,
further comprising hands-free communication means for
25 providing sound communication between a user and the

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ordinary communication means.

7. An emergency informing apparatus as claimed in claim 3,
further comprising hands-free communication means for
5 providing sound communication between a user and the
ordinary communication means.

8. An emergency informing apparatus as claimed in claim 4,
further comprising hands-free communication means for
10 providing sound communication between a user and the
ordinary communication means.

9. An emergency informing system comprising:
a wireless telephone network including a base
15 station; and
emergency informing apparatus for a vehicle
including:

position detecting means for detecting a position
of said emergency informing apparatus in response to a
20 command signal;

data generation means including storing means for
generating emergency data including at least identification
data of said vehicle from said storing means, called party
data from said storing means, and said position in response
25 to said command signal; and

telephone communication means including:

emergency communicating means for making a call
with said called party data and transmitting emergency data
to a called party indicated by said called party data in
5 response to said command signal; and

ordinary communication means for providing
telephone communication with a desired party in response to
a calling demand and with a calling party in response to a
call from said calling party; and

10 controlling means for operating said emergency
communication means when said command signal is exist and
operating said ordinary communication means when said
command signal is inexistent; and

a predetermined station for receiving and outputting
15 said emergency data from said telephone communication means
via said wireless telephone network.

10. An emergency informing system as claimed in claim 9,
wherein said emergency informing apparatus further
20 comprises interface means for interfacing said ordinary
communication means with an external unit.

11. An emergency informing system as claimed in claim 9,
wherein said emergency informing apparatus further
25 comprises data converting means for converting data in said

telephone communication between said interface means and
said telephone communication means.

12. An emergency informing system as claimed in claim 9,
5 wherein said emergency informing apparatus further
comprises automatic dialling means for registering
telephone number data and supplying said calling demand and
one of said registered telephone number data to said
ordinary communication means to provide said telephone
10 communication.

13. An emergency informing system as claimed in claim 9,
wherein said emergency informing apparatus further
comprises hands-free communication means for providing
15 sound communication between a user and the ordinary
communication means.

14. An emergency informing system as claimed in claim 10,
wherein said emergency informing apparatus further
20 comprises hands-free communication means for providing
sound communication between a user and the ordinary
communication means.

15. An emergency informing system as claimed in claim 11,
25 wherein said emergency informing apparatus further

comprises hands-free communication means for providing
sound communication between a user and the ordinary
communication means.

- 5 16. An emergency informing system as claimed in claim 12,
wherein said emergency informing apparatus further
comprises hands-free communication means for providing
sound communication between a user and the ordinary
communication means.

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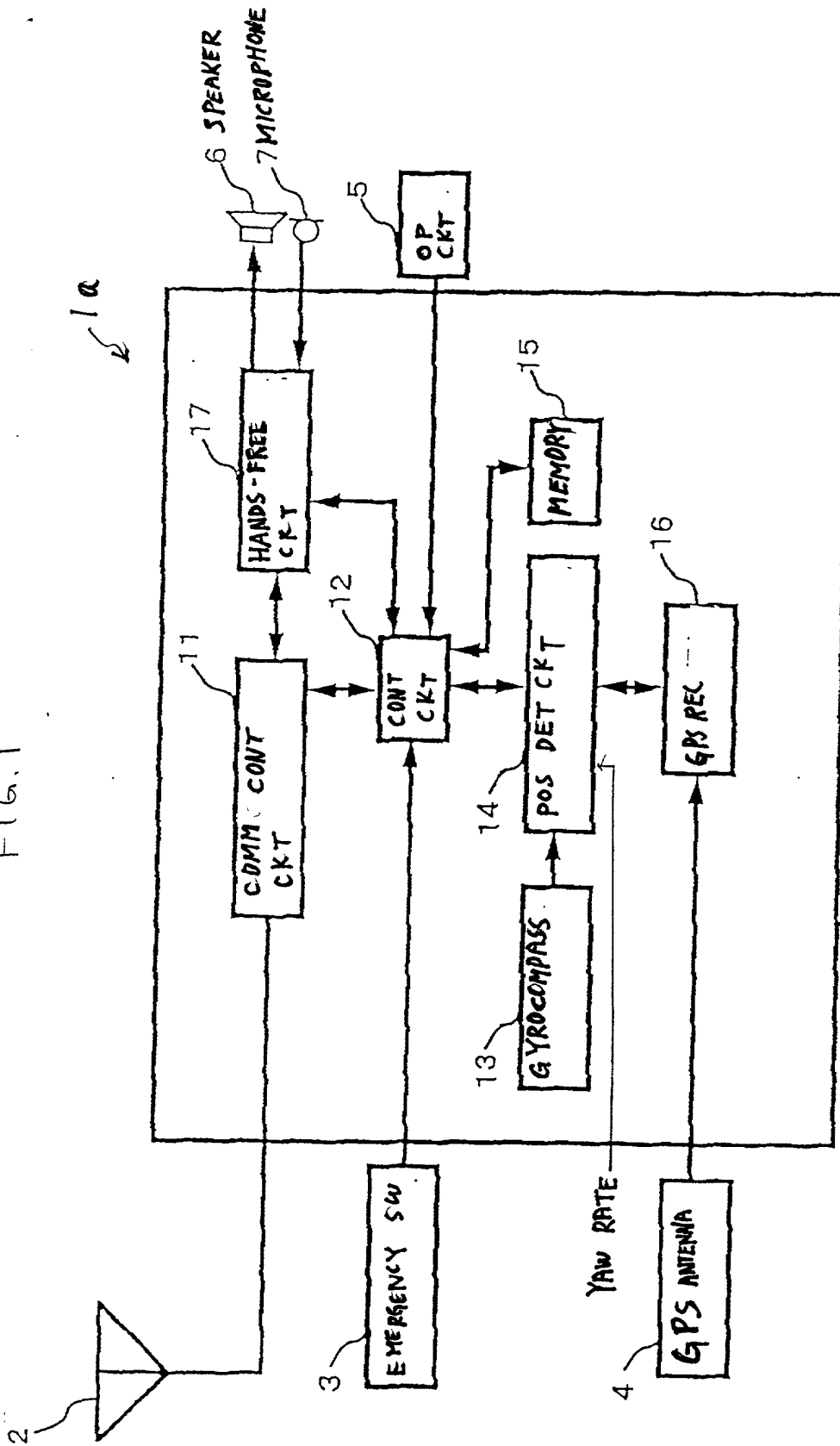
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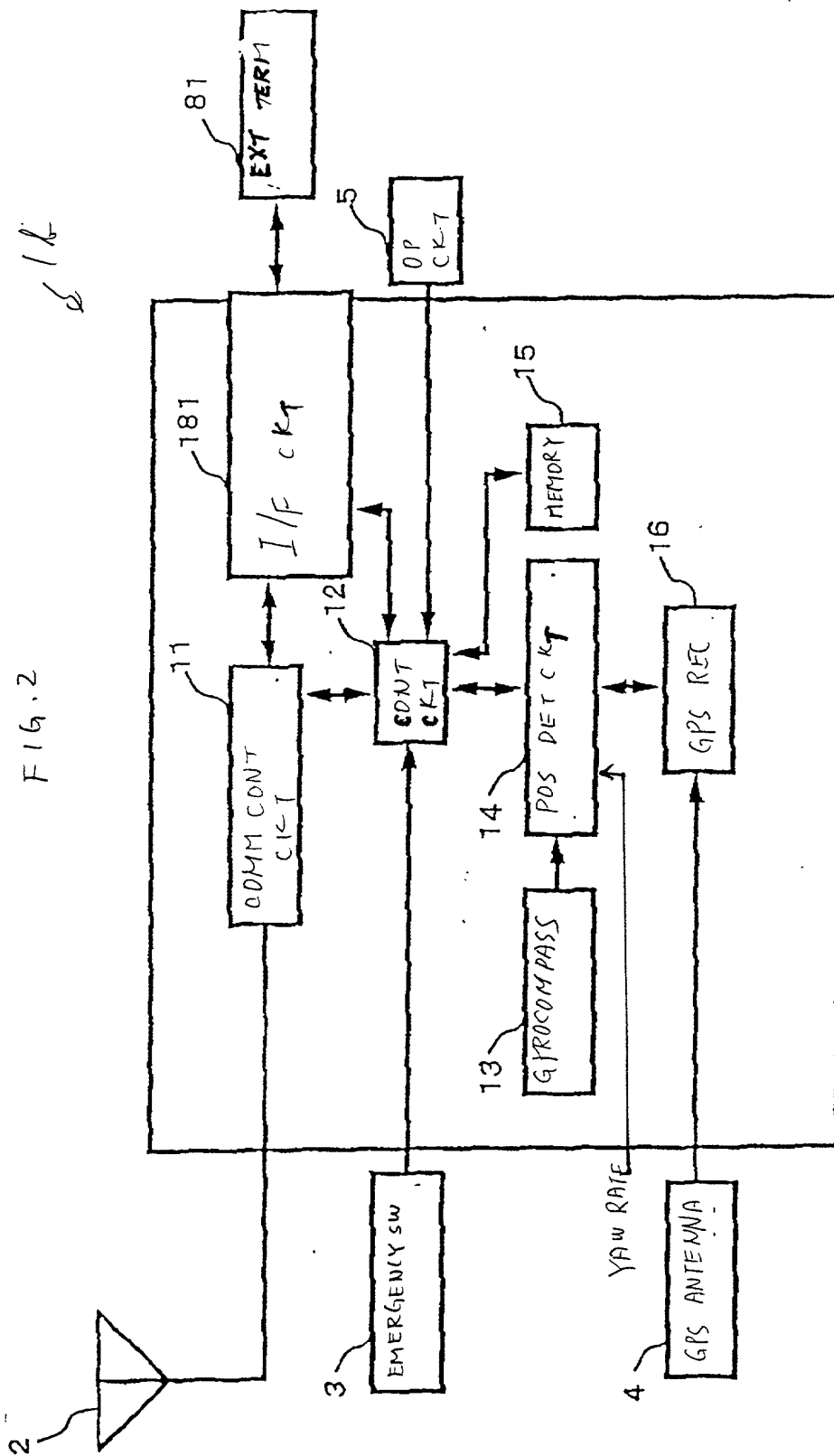
ABSTRACT OF THE DISCLOSURE

An ordinary telephone communication circuit is provided in addition to the emergency informing circuit in an emergency informing apparatus. In the non-emergency
5 condition, ordinary telephone communication is provided through a wireless communication network. In the emergency condition, the emergency data is transmitted to a predetermined station through the wireless communication network. An interface for transmitting and receiving data
10 is further provided. A data converter for converting data may be provided as a data communication adapter. An automatic dialling circuit may be provided. An emergency informing system including the emergency informing apparatus, the wireless network, and a terminal of a
15 predetermined station for receiving the emergency data from the emergency informing apparatus is also disclosed.

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[illegible]



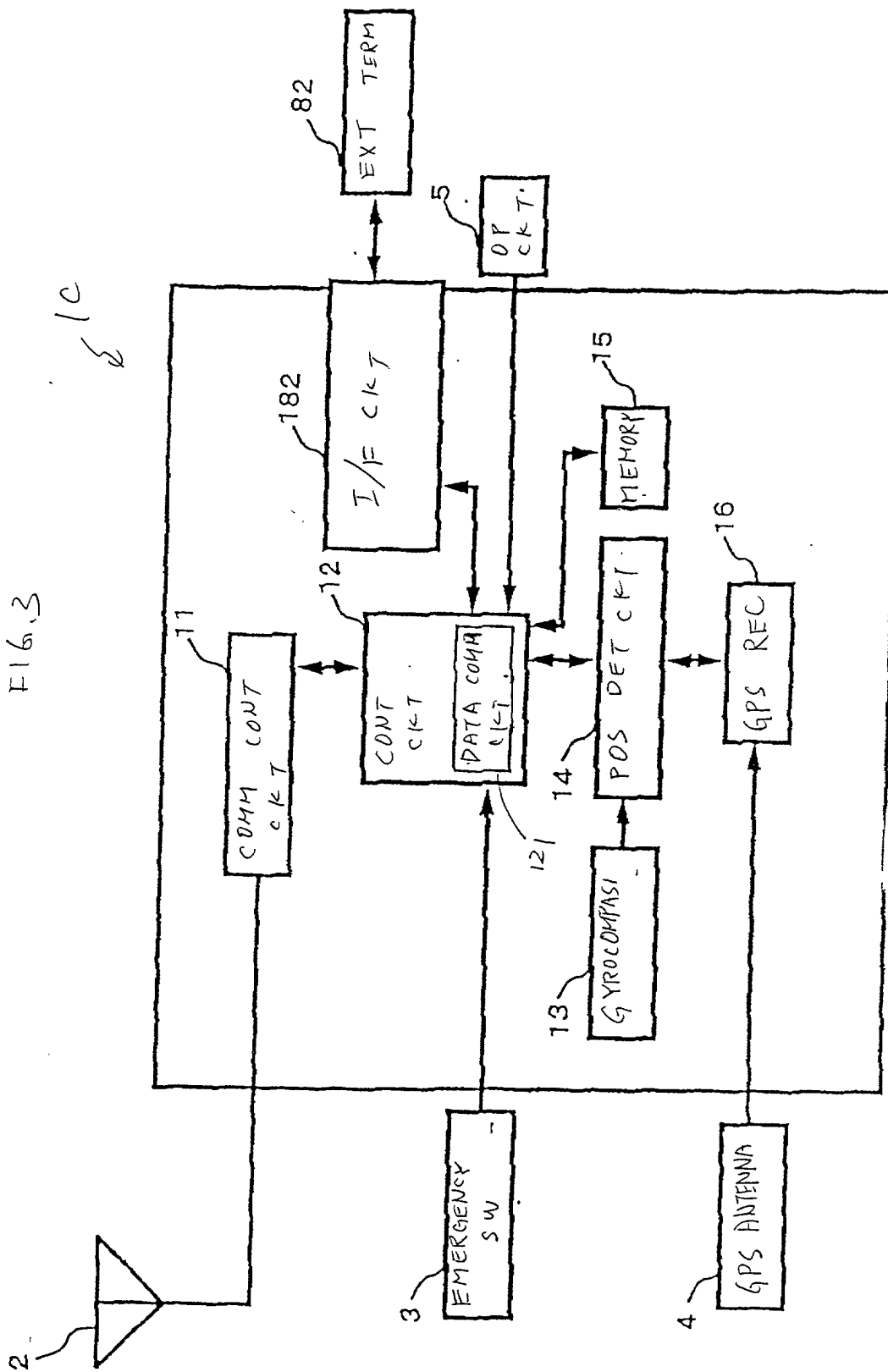
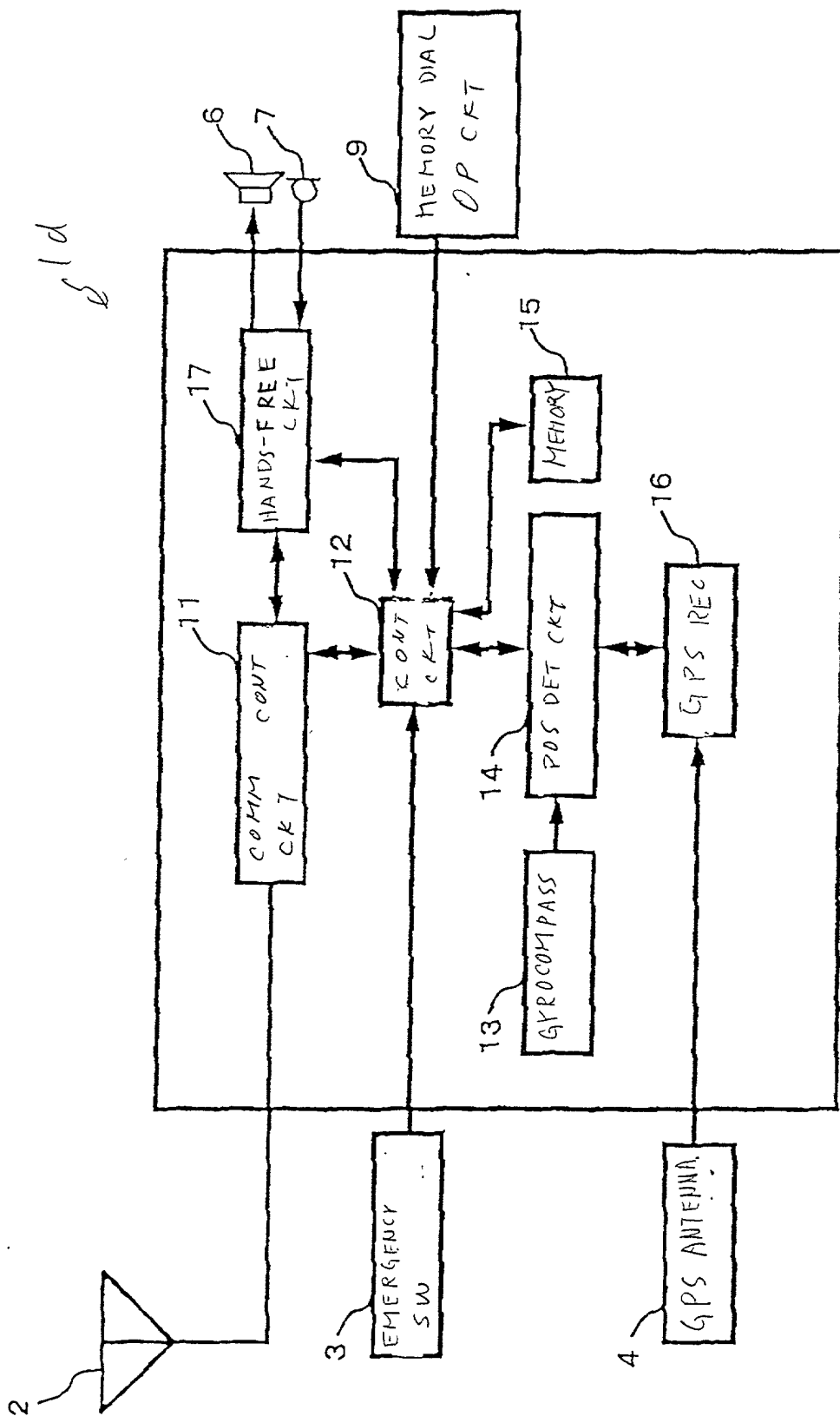


FIG. 4



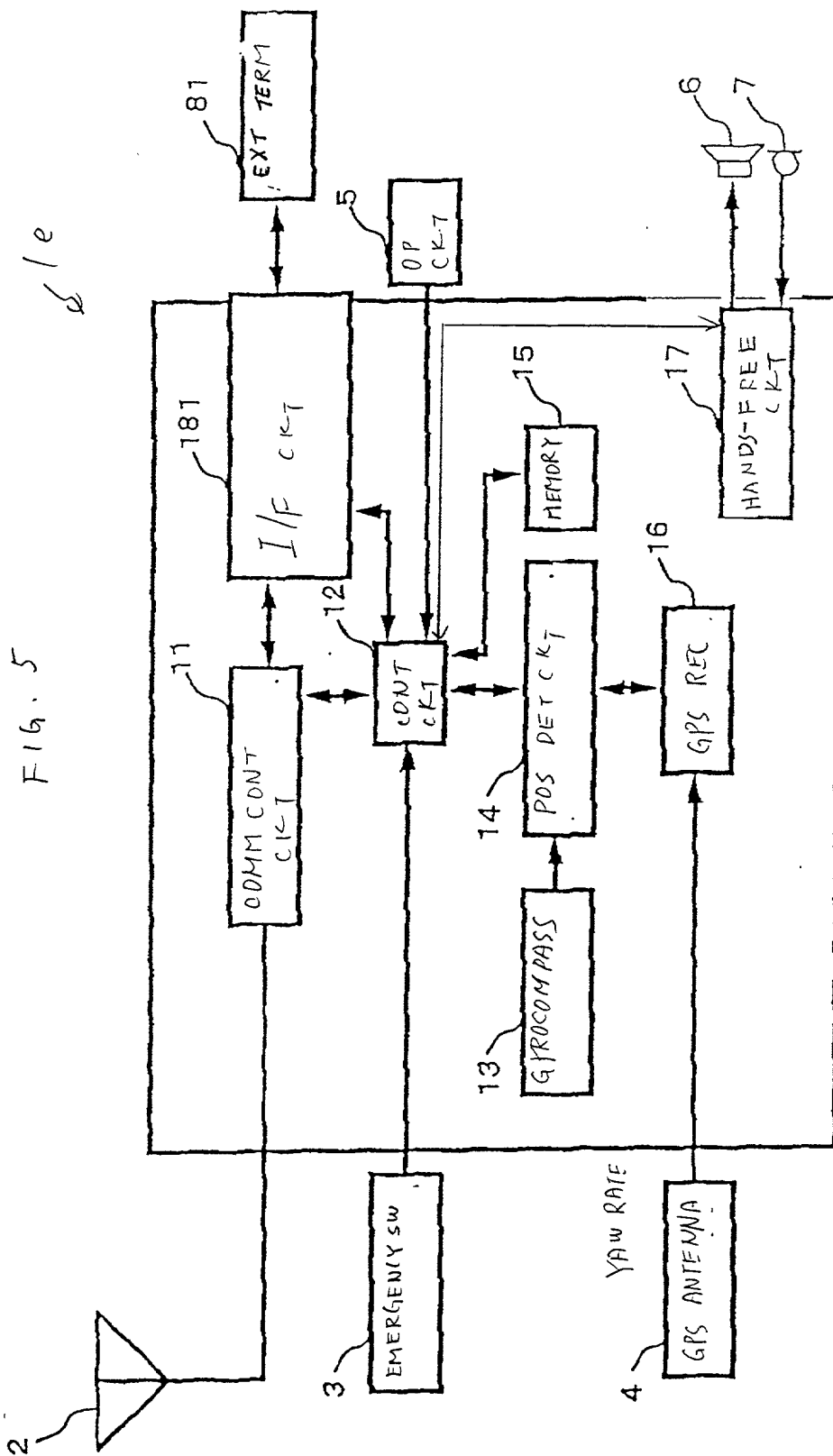
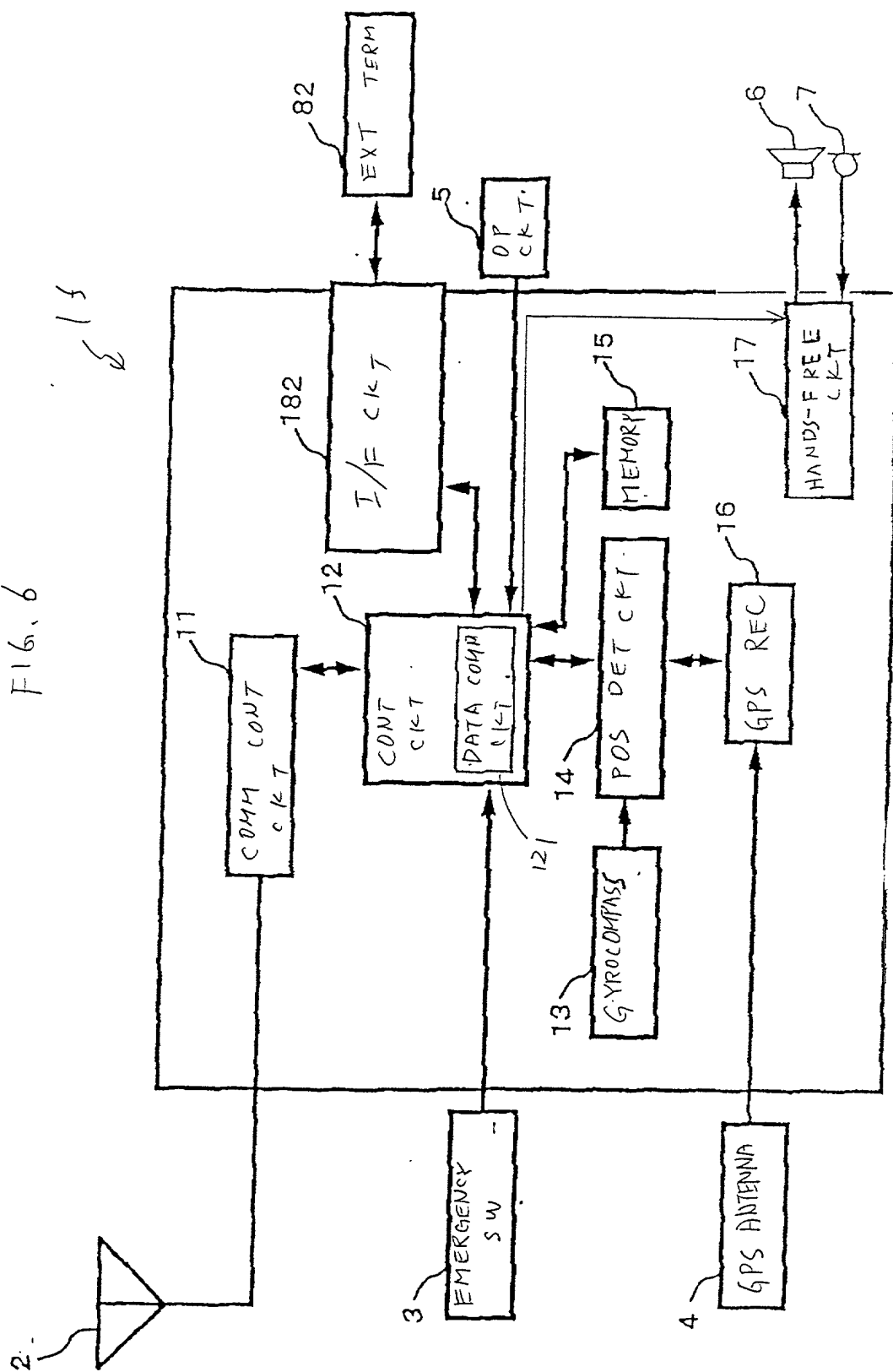


FIG. 6



DECLARATION AND POWER OF ATTORNEY

U.S.A.

Attorney Ref. No.

As a below-named inventor, I hereby declare: My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled AN EMERGENCY INFORMING APPARATUS AND AN EMERGENCY INFORMING SYSTEM, the specification of which

(Check
one)☒ is attached hereto.☐ was filed on _____ as Application Serial No. _____

and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above, and acknowledge a duty to disclose information which is material to the examination of this application under 37 CFR 1.56(a). I hereby claim priority benefits under 35 U.S.C. 119 based on any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate on the present invention, filed before the application(s) on which priority is claimed.

FOREIGN APPLICATION(S), IF ANY, REFERRED TO ABOVE			
COUNTRY	APPLICATION NUMBER	DATE	PRIORITY CLAIMED
Japan	11-94287	March 31, 1999	YES <u>X</u> NO ____
			YES ____ NO ____
			YES ____ NO ____

I hereby claim benefit under 35 U.S.C. 120 of any U.S. application(s) listed below. If the subject matter of any claim(s) of this application is not disclosed in the prior U.S. application(s) as required by paragraph one of 35 U.S.C. 112. I acknowledge as duty to disclose material information as defined in 37 C.F.R. 1.56(a) regarding occurrences between the filing date of the prior application(s) and the national or PCT international filing date of this application.

APPLICATION SERIAL NUMBER	DATE	STATUS

I hereby appoint Louis Woo, RN 31,730 and Robert R. Priddy, RN 20,169 as my attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Address all communications to **LAW OFFICES OF LOUIS WOO, 1901 North Fort Myer Drive, Suite 501, Arlington, Virginia 22209**

All statements made herein of my own knowledge are true. All statements made on information and belief are believed to be true. These statements were made with knowledge that willful false statements and the like so made are punishable by fine, imprisonment, or both, under 18 U.S.C. 1001 and may jeopardize the validity of the application or any patent issuing thereon.

Note: Please sign one full given name and your surname, using initials where appropriate for other names. It is important that the name be consistent throughout the application papers. Signing of an application more than five weeks prior to filing or an undated application is not acceptable to the Patent and Trademark Office except for receiving an initial filing date.

1. Full name of inventor Kenji Yoshioka Date: March 17, 2000
Inventor's signature Kenji Yoshioka
Residence Yokohama-shi, Kanagawa-ken, Japan
Citizenship Japanese
Post Office Address 340-4, Kishine-cho, Kohoku-ku, Yokohama-shi, Kanagawa-ken 222-0034 Japan

() Additional inventors listed